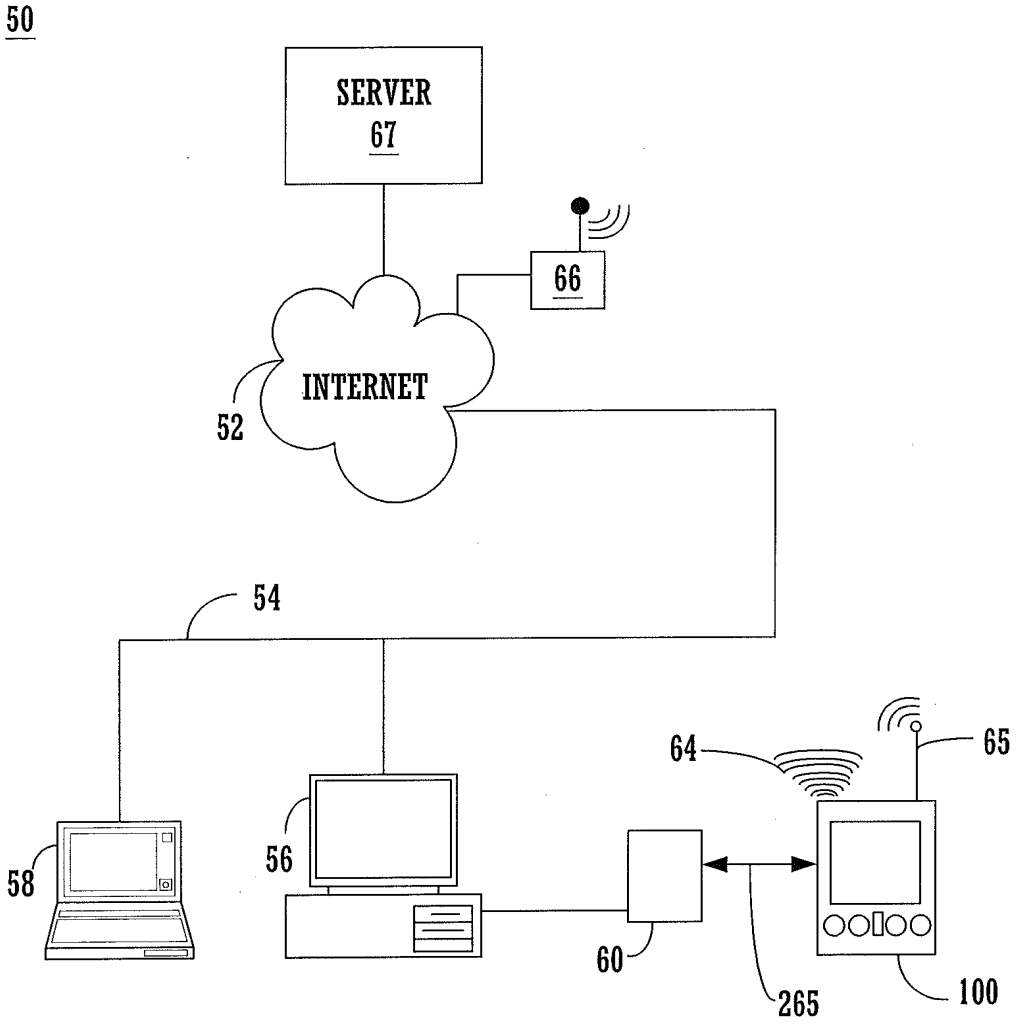

FIGURE 1

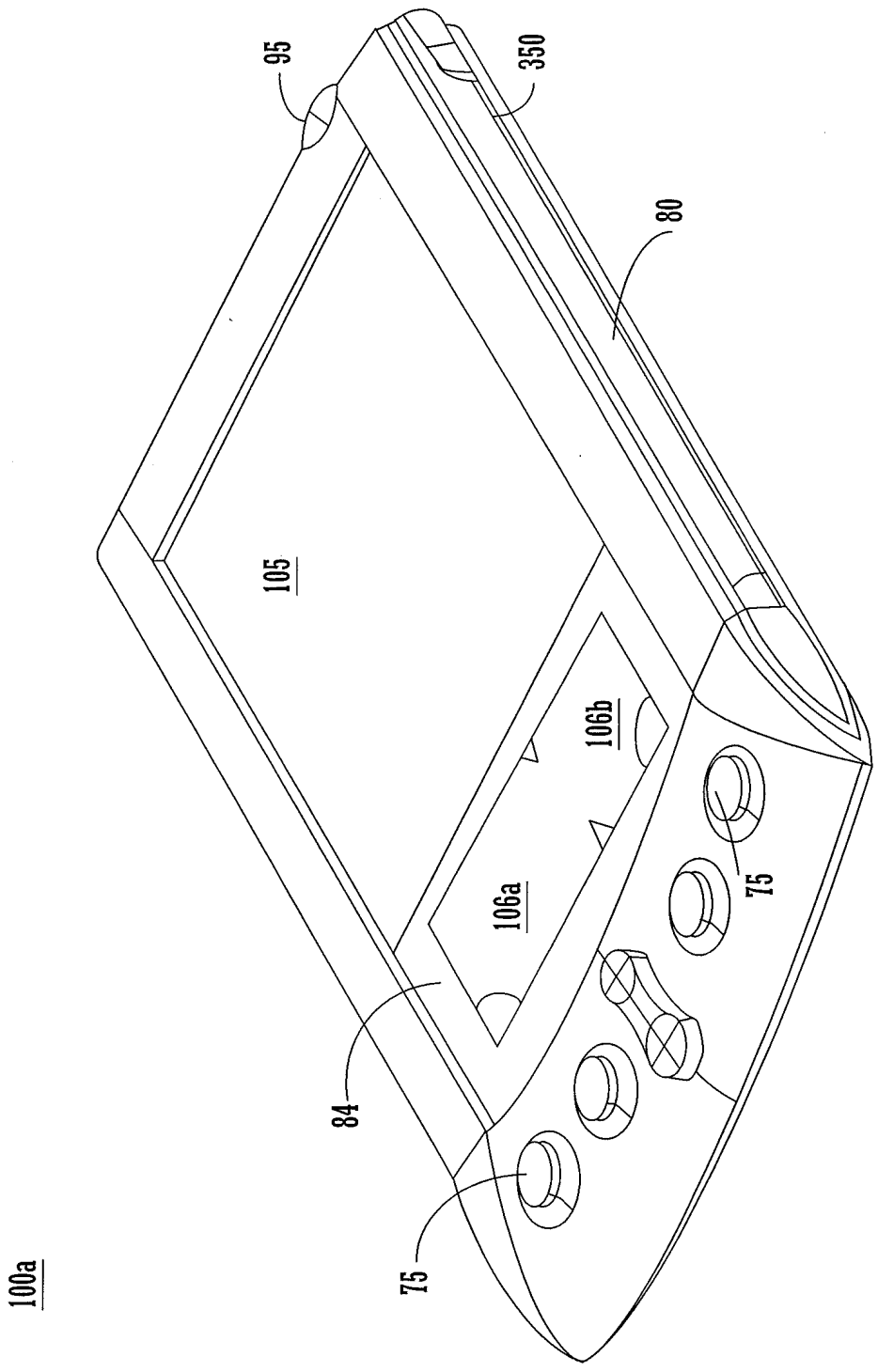

FIGURE 2A

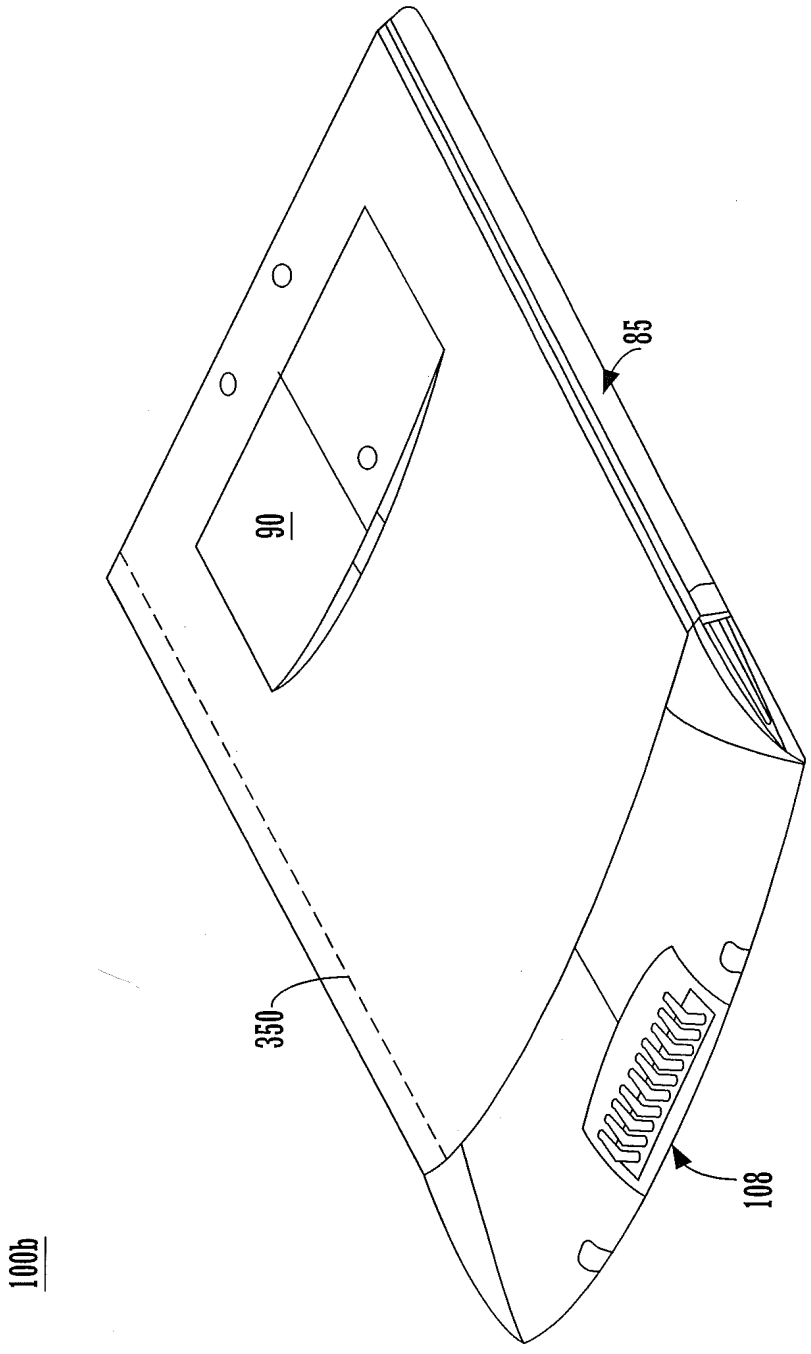

FIGURE 2B

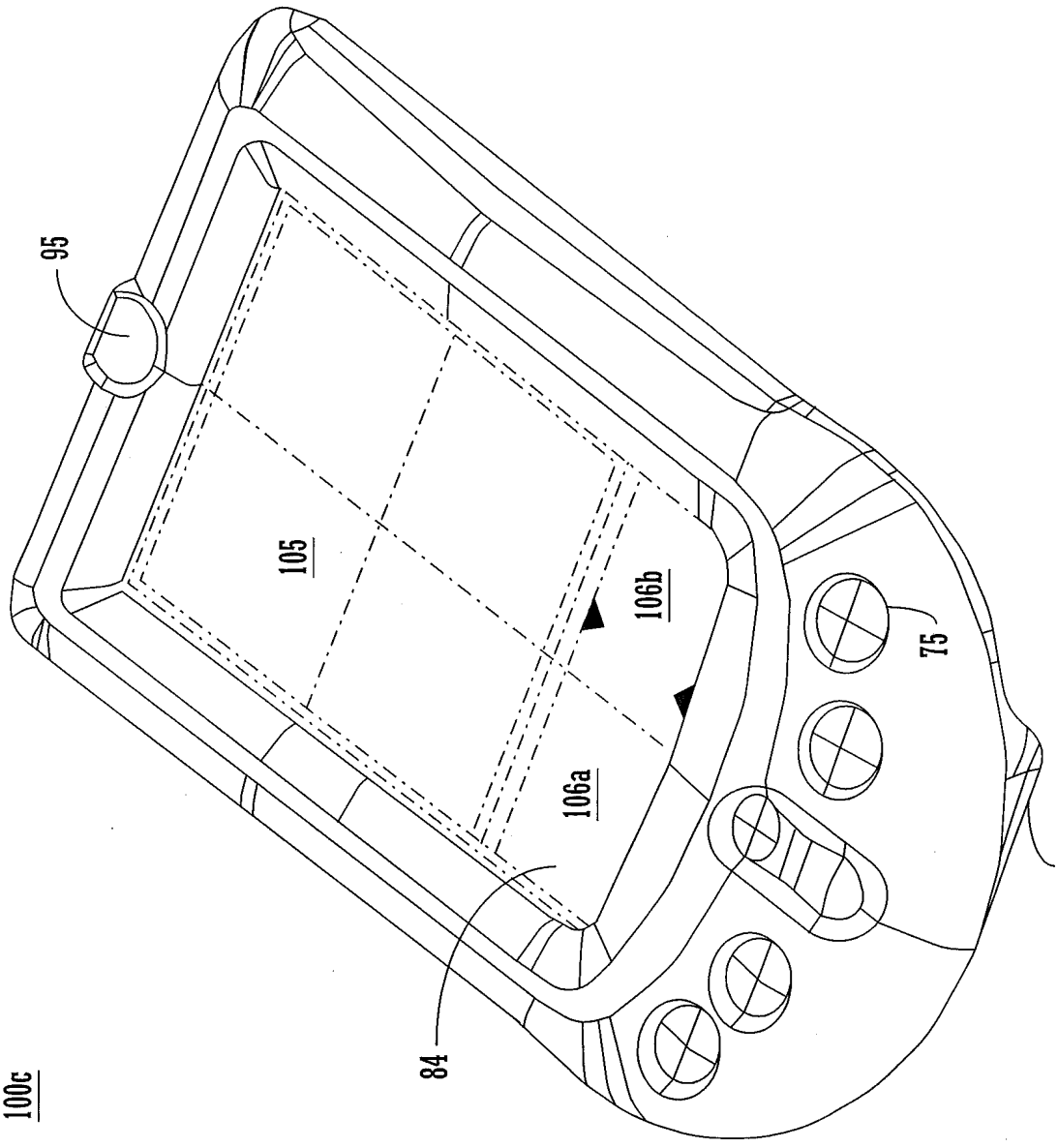

FIGURE 2C

60

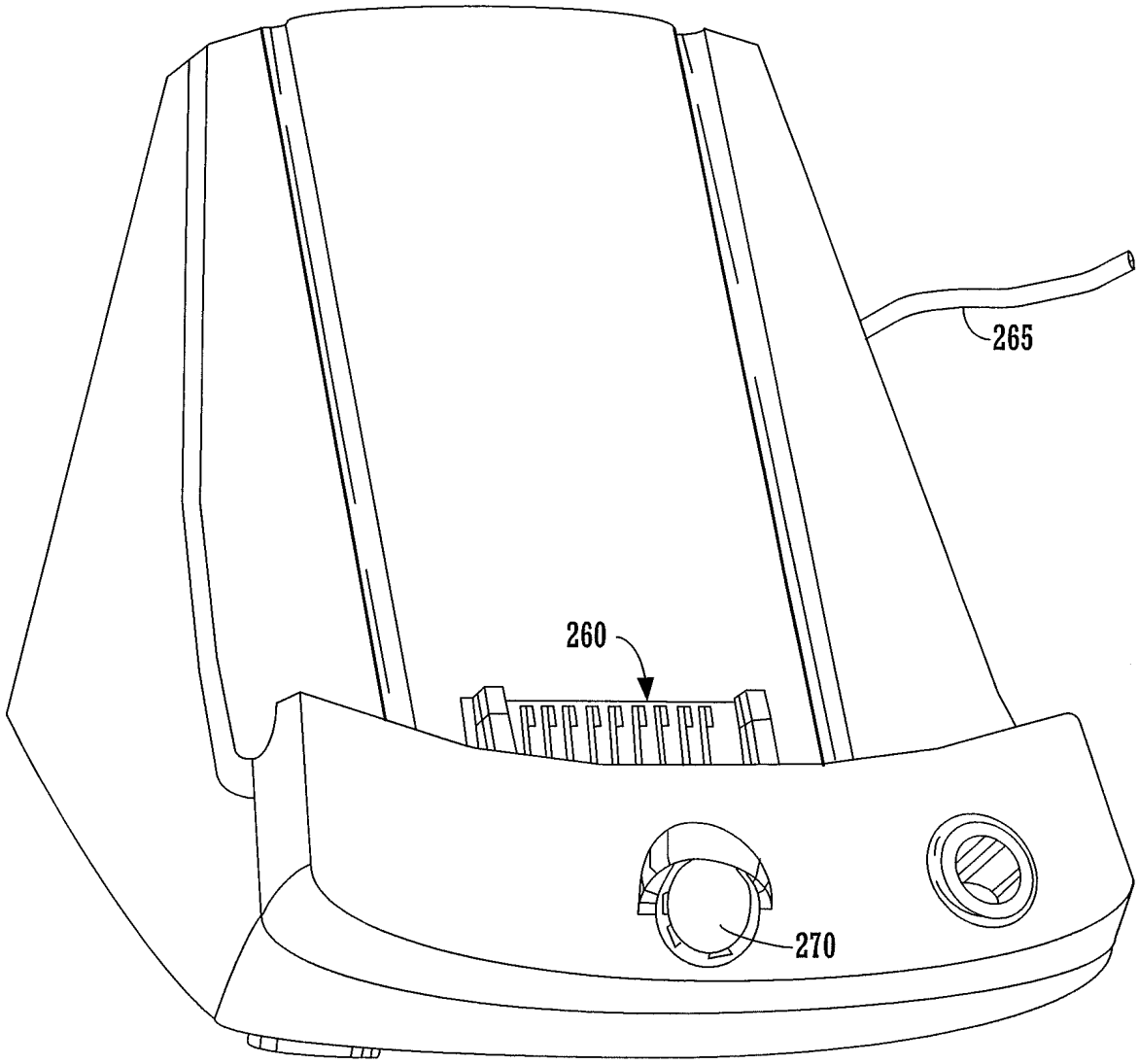

FIGURE 3

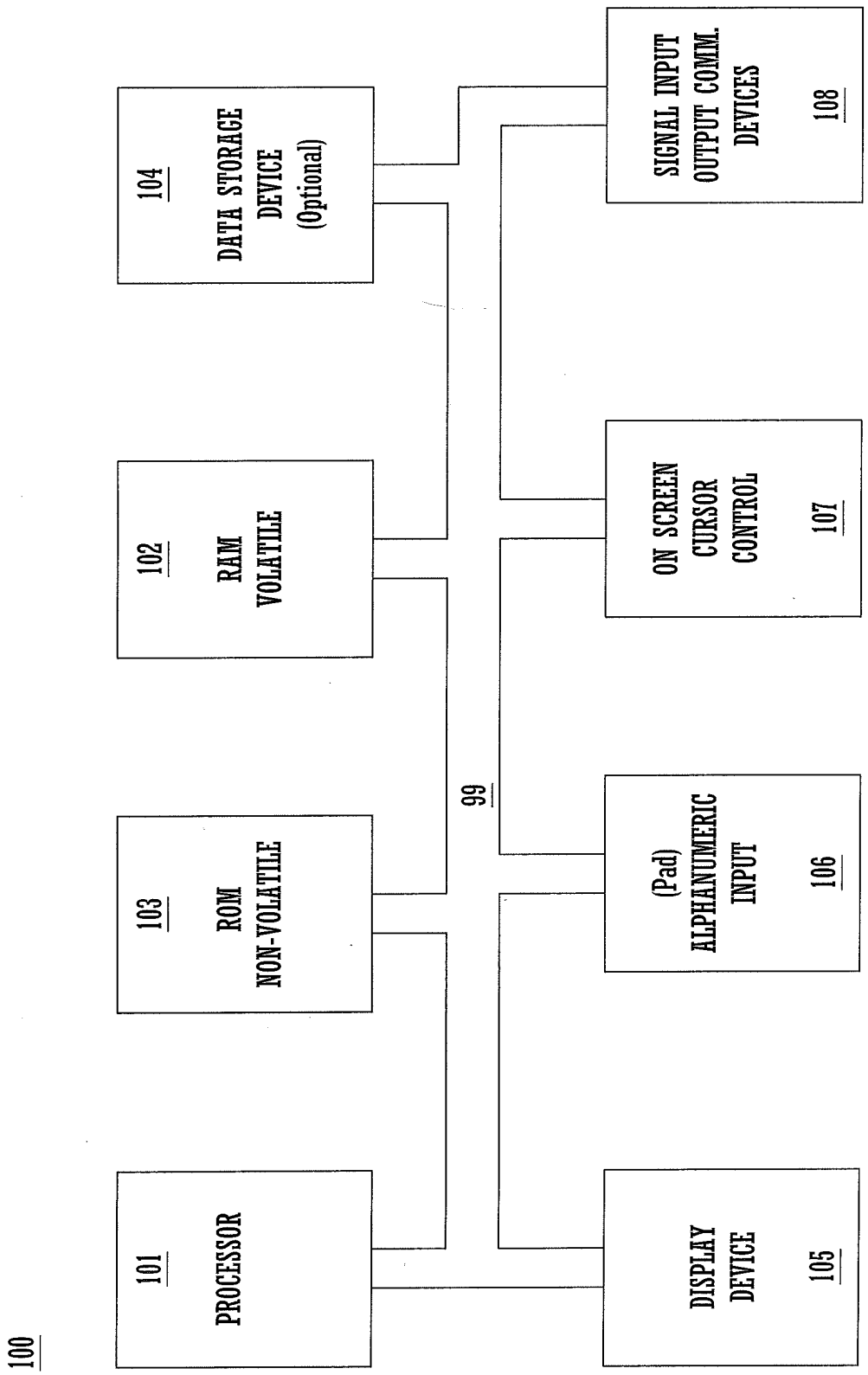
100
101
PROCESSOR
103
ROM
NON-VOLATILE
102
RAM
VOLATILE
104
DATA STORAGE
DEVICE
(Optional)
99
DISPLAY
DEVICE
105
(Pad)
ALPHANUMERIC
INPUT
106
ON SCREEN
CURSOR
CONTROL
107
SIGNAL INPUT
OUTPUT COMM.
DEVICES
108

FIGURE 4

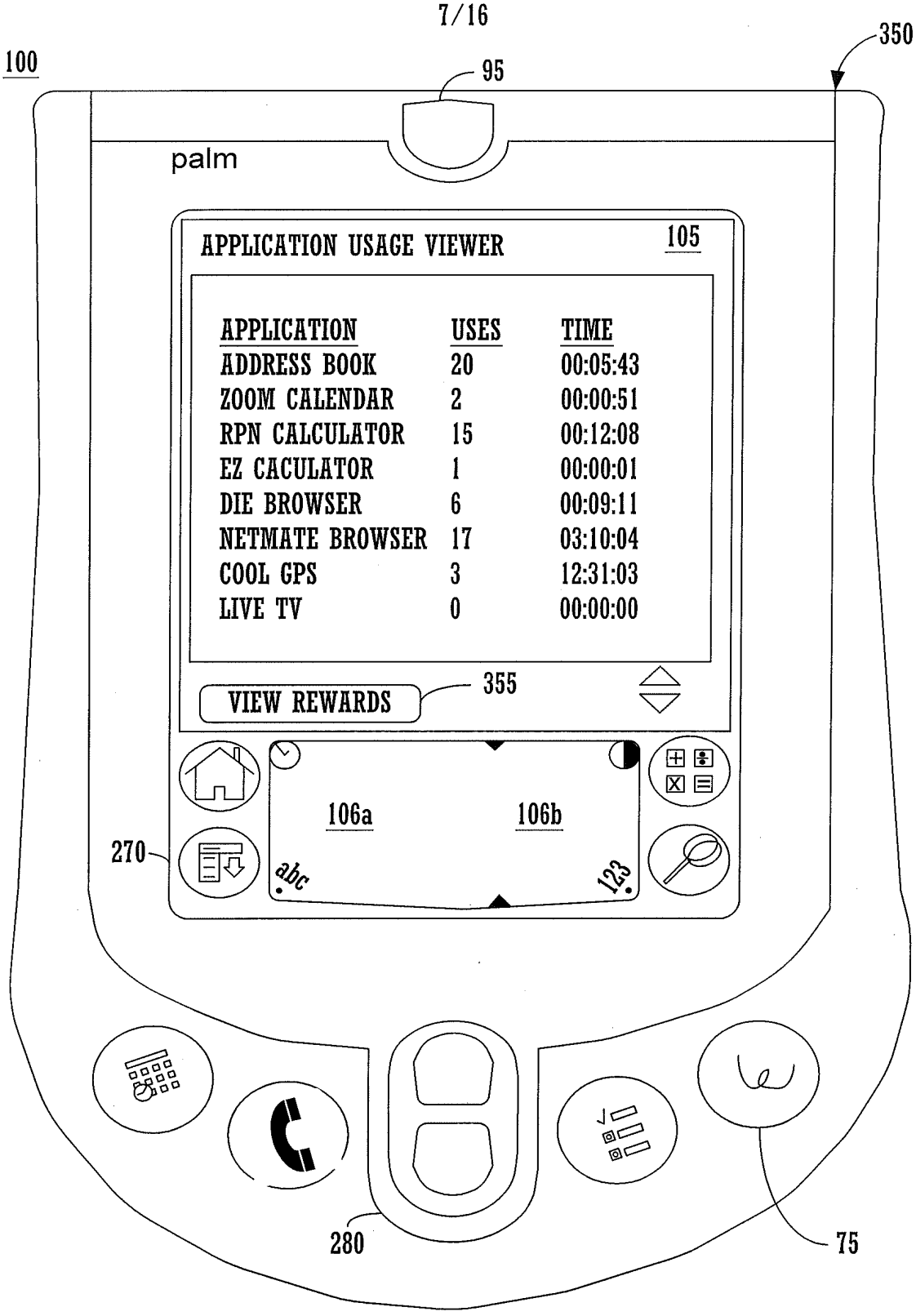
100
95
350
palm
APPLICATION USAGE VIEWER
105
APPLICATION USES TIME
ADDRESS BOOK 20 00:05:43
ZOOM CALENDAR 2 00:00:51
RPN CALCULATOR 15 00:12:08
EZ CACULATOR 1 00:00:01
DIE BROWSER 6 00:09:11
NETMATE BROWSER 17 03:10:04
COOL GPS 3 12:31:03
LIVE TV 0 00:00:00
VIEW REWARDS
355
106a
106b
270
abc
123
280
75

FIGURE 5

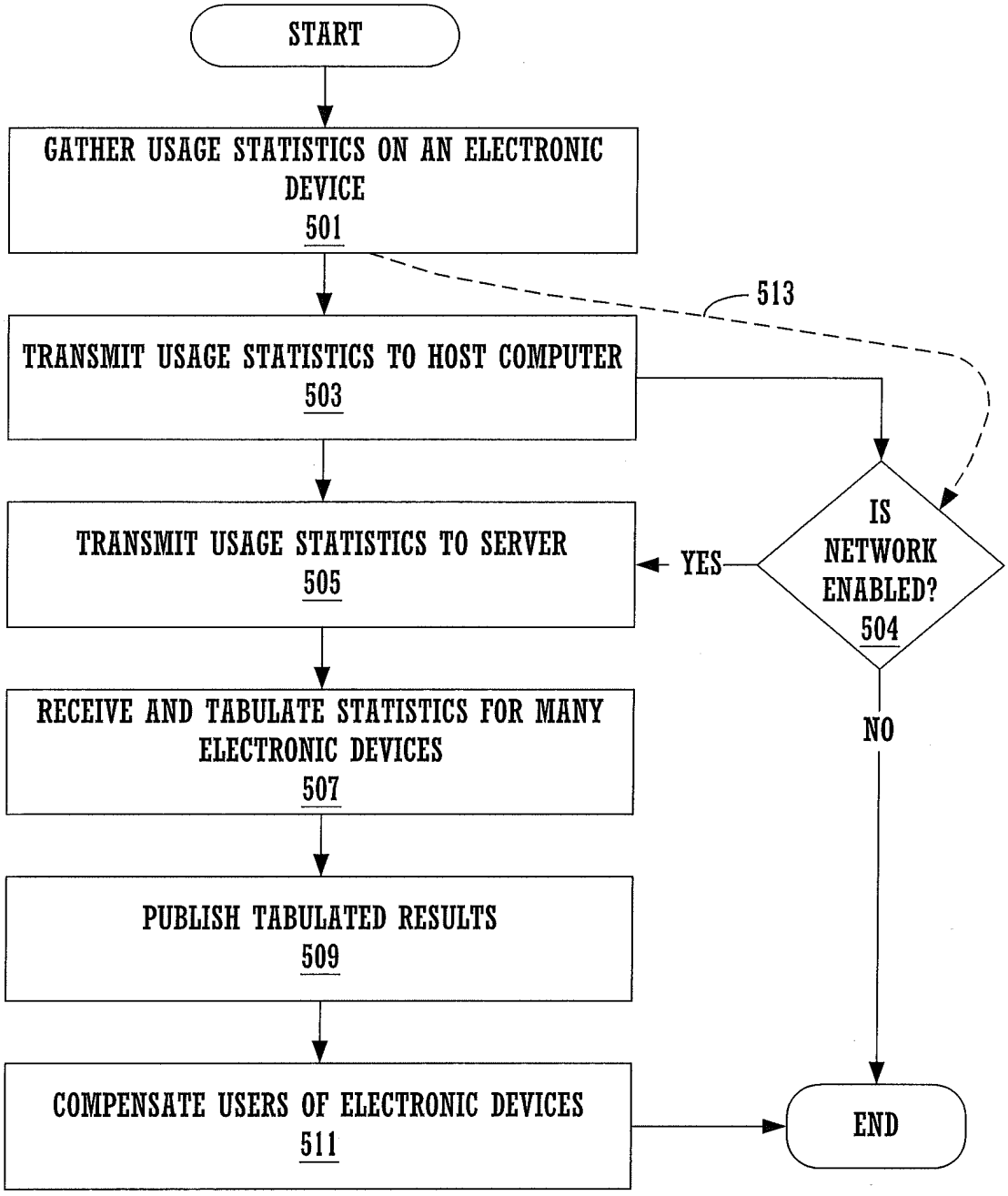
START
GATHER USAGE STATISTICS ON AN ELECTRONIC DEVICE
501
513
TRANSMIT USAGE STATISTICS TO HOST COMPUTER
503
IS NETWORK ENABLED?
504
YES
TRANSMIT USAGE STATISTICS TO SERVER
505
NO
RECEIVE AND TABULATE STATISTICS FOR MANY ELECTRONIC DEVICES
507
PUBLISH TABULATED RESULTS
509
COMPENSATE USERS OF ELECTRONIC DEVICES
511
END

FIGURE 6

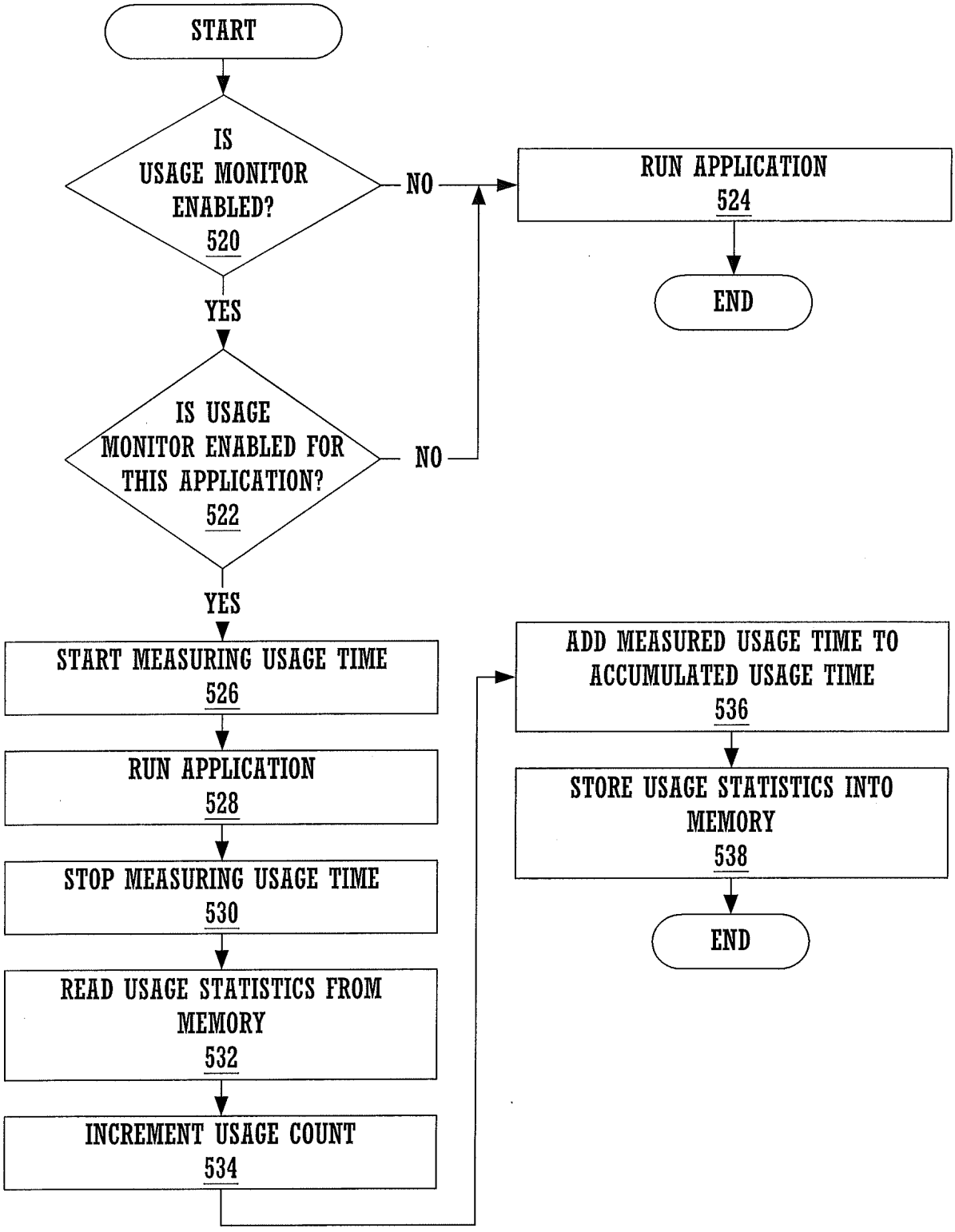
START
IS USAGE MONITOR ENABLED? 520
NO
RUN APPLICATION 524
END
YES
IS USAGE MONITOR ENABLED FOR THIS APPLICATION? 522
NO
YES
START MEASURING USAGE TIME 526
RUN APPLICATION 528
STOP MEASURING USAGE TIME 530
READ USAGE STATISTICS FROM MEMORY 532
INCREMENT USAGE COUNT 534
ADD MEASURED USAGE TIME TO ACCUMULATED USAGE TIME 536
STORE USAGE STATISTICS INTO MEMORY 538
END

FIGURE 7

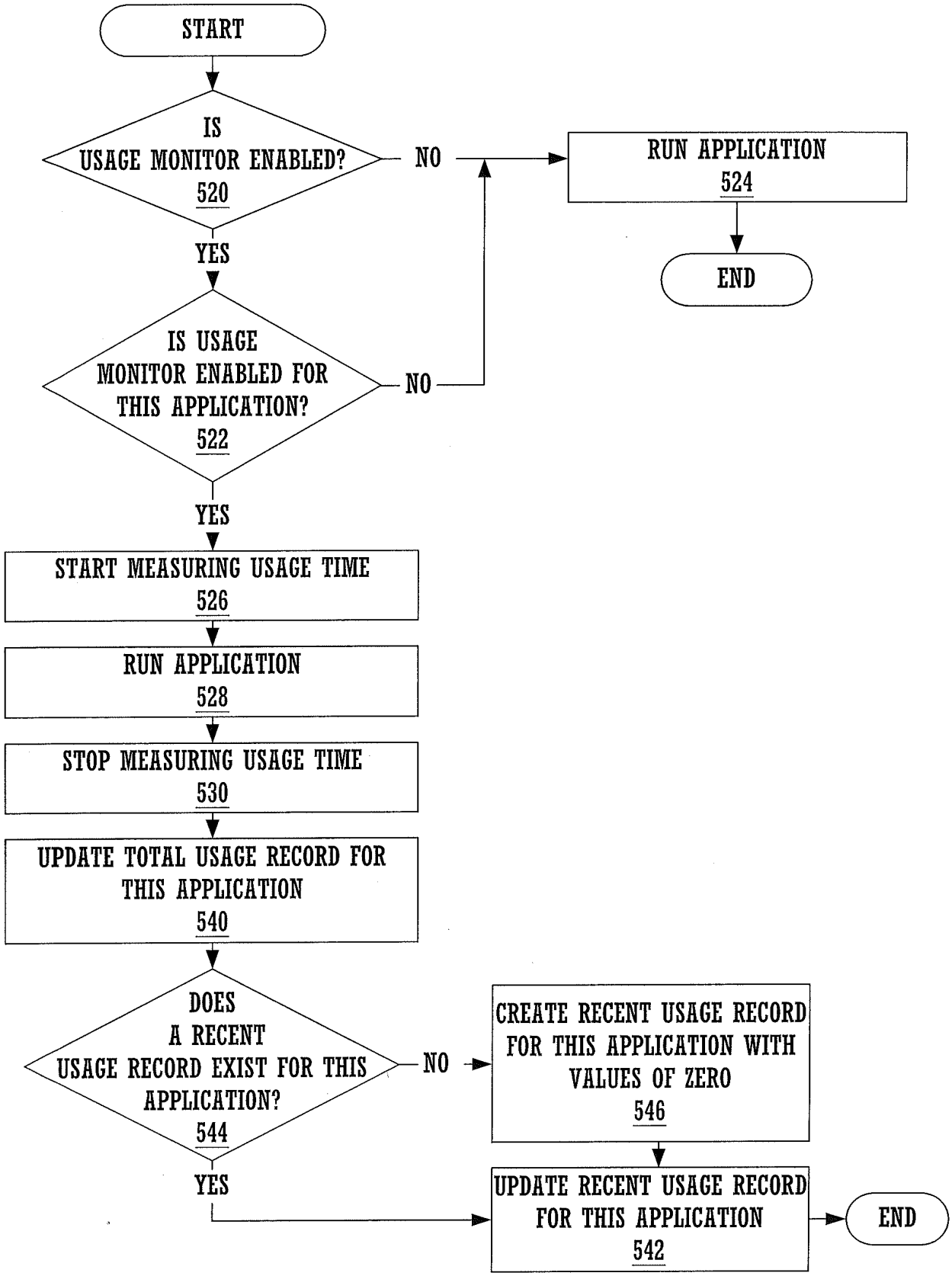
START
IS USAGE MONITOR ENABLED? 520
NO
RUN APPLICATION 524
END
YES
IS USAGE MONITOR ENABLED FOR THIS APPLICATION? 522
NO
YES
START MEASURING USAGE TIME 526
RUN APPLICATION 528
STOP MEASURING USAGE TIME 530
UPDATE TOTAL USAGE RECORD FOR THIS APPLICATION 540
DOES A RECENT USAGE RECORD EXIST FOR THIS APPLICATION? 544
NO
CREATE RECENT USAGE RECORD FOR THIS APPLICATION WITH VALUES OF ZERO 546
YES
UPDATE RECENT USAGE RECORD FOR THIS APPLICATION 542
END

FIGURE 8

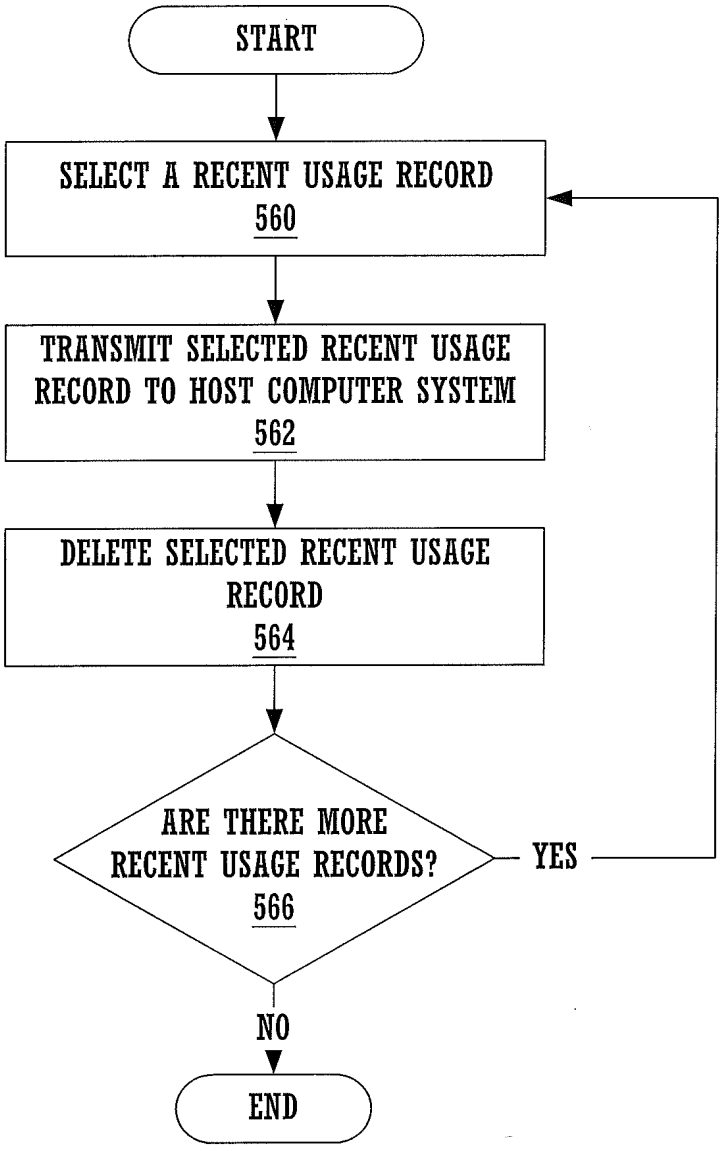
START
SELECT A RECENT USAGE RECORD
560
TRANSMIT SELECTED RECENT USAGE RECORD TO HOST COMPUTER SYSTEM
562
DELETE SELECTED RECENT USAGE RECORD
564
ARE THERE MORE RECENT USAGE RECORDS?
566
YES
NO
END

FIGURE 9

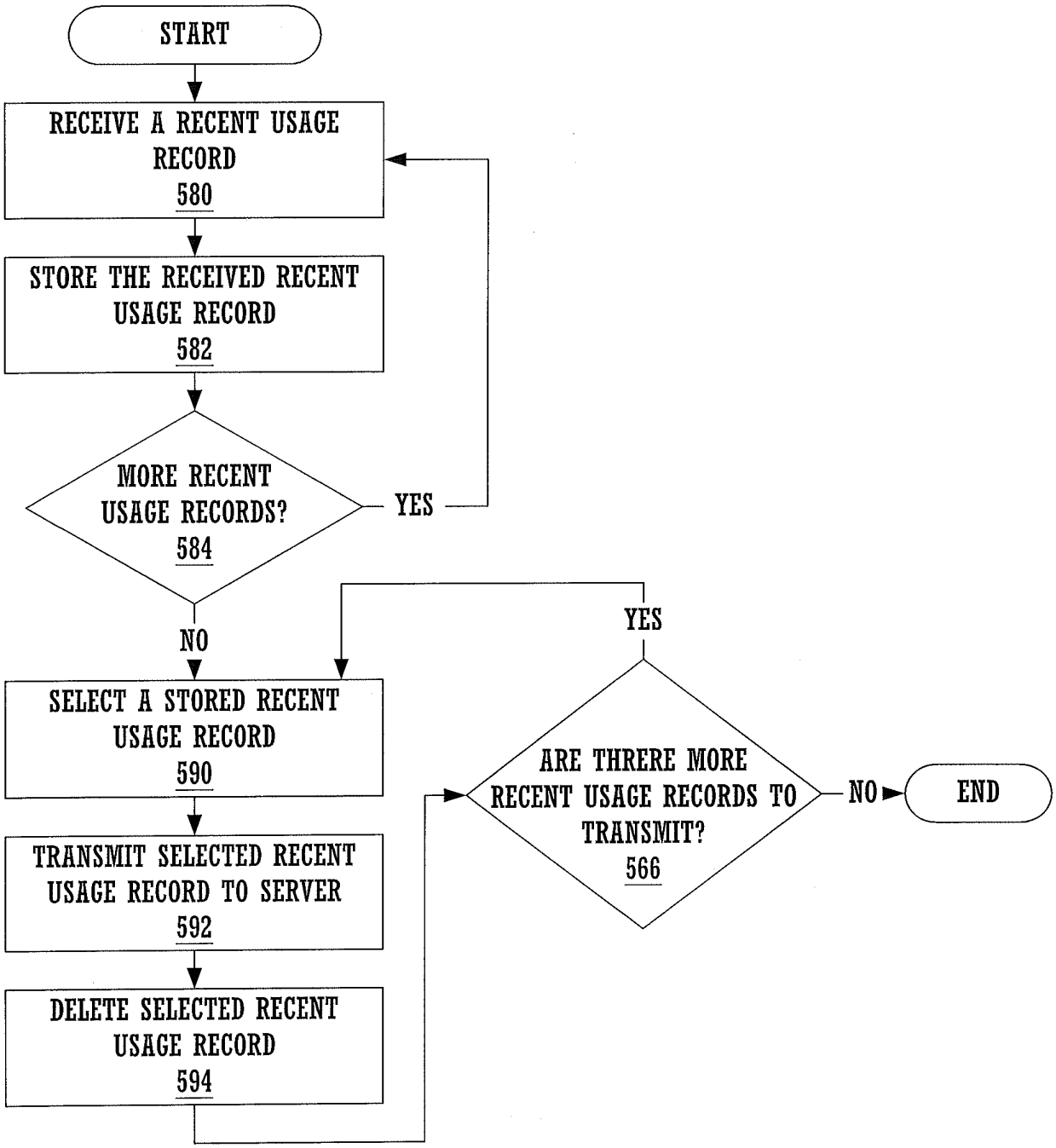
START
RECEIVE A RECENT USAGE RECORD
580
STORE THE RECEIVED RECENT USAGE RECORD
582
MORE RECENT USAGE RECORDS?
584
YES
NO
SELECT A STORED RECENT USAGE RECORD
590
TRANSMIT SELECTED RECENT USAGE RECORD TO SERVER
592
DELETE SELECTED RECENT USAGE RECORD
594
YES
ARE THRERE MORE RECENT USAGE RECORDS TO TRANSMIT?
566
NO
END

FIGURE 10

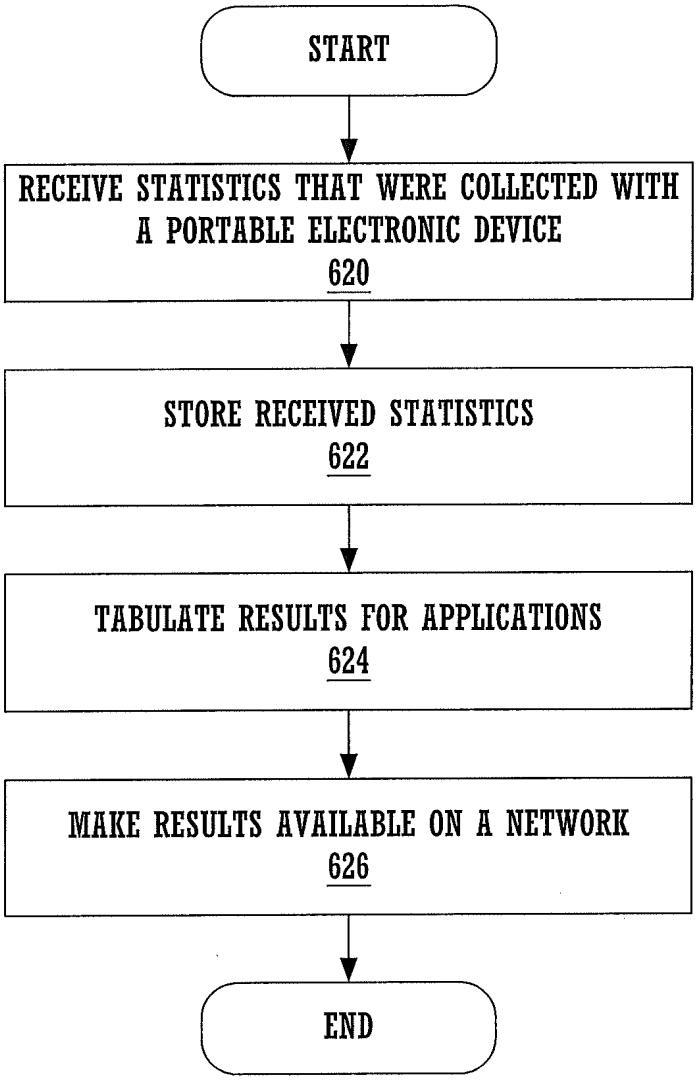
START
RECEIVE STATISTICS THAT WERE COLLECTED WITH A PORTABLE ELECTRONIC DEVICE
620
STORE RECEIVED STATISTICS
622
TABULATE RESULTS FOR APPLICATIONS
624
MAKE RESULTS AVAILABLE ON A NETWORK
626
END

FIGURE 11

APP INFO BLOCK 940

MONITOR	1 BYTE
UserID	8 BYTES
User Name	21 BYTES
User email	41 BYTES

FIGURE 12A

USAGE RECORD HEADER STRUCTURE 900

DATA STRUCTURE COUNT	2 BYTES
DATE	2 BYTES
DATA STRUCTURE TYPE INDICATOR	2 BYTES
ARRAY OF DATA STRUCTURES	... BYTES

FIGURE 12B

USAGE APPLICATION DATA STRUCTURE 920

CREATOR CODE	4 BYTES
TIME SPENT (seconds)	4 BYTES
COUNT	2 BYTES

FIGURE 12C